

## **CLAIMS SET AS AMENDED 09/28/2003**

What is claimed is:

1. (Original) A chaffer having a frame and having a chaffer length and having a chaffer width, for use in an agricultural combine having a fan blowing air through the chaffer for chaffing of a crop, the chaffer comprising:  
  
a plurality of air jets dimensioned and configured to provide an air blast; and  
  
a plurality of screens positioned between the air jets, at least one of the screens having a plurality of apertures dimensioned and configured to admit such crop, the plurality of apertures having a minimal flow of air therethrough.
2. (Original) The chaffer of claim 1, further comprising:  
  
a plurality of individual chaffing elements positioned coterminously within such frame, each one of the plurality of individual chaffing elements having an element length and an element width.
3. (Original) The chaffer of claim 2, wherein each one of the individual chaffing elements positioned coterminously within such frame further comprises at least one of the plurality of air jets and at least one of the plurality of screens.
4. (Original) The chaffer of claim 3, wherein at least one of the plurality of air jets

further extends laterally substantially across the width of the individual chaffing element.

5. (Original) The chaffer of claim 4, wherein each of said chaffing elements further comprises:  
  
a plurality of steps each having a riser portion and a tread portion, wherein at least one riser portion of one step comprises at least one of the plurality of air jets, and wherein at least one tread portion of one step comprises at least one of the plurality of screens.
6. (Original) The chaffer of claim 5, wherein the angle of exhaust of at least one of the plurality of air jets approximates the angle of air flow from such fan.
7. (Original) The chaffer of claim 1, wherein at least one of the plurality of air jets is too small to admit such crop being chaffed.
8. (Original) The chaffer of claim 1, wherein at least one of the plurality of air jets is too powerful to admit such crop being chaffed.
9. (Previously Amended) The chaffer of claim 1, wherein the plurality of apertures further comprise:  
  
a portion of the surface area of the at least one screen in the range from 40% to 90% of the surface area of the plurality of screens, preferably from 60%

to 80% of the surface area of the plurality of screens.]

10. (Original) The chaffer of claim 1, wherein said air blast is perpendicular to the plurality of apertures.
11. (Original) The chaffer of claim 1, wherein said air blast is parallel to the plurality of screens.
12. (Withdrawn)
13. (Withdrawn)
14. (Withdrawn)
15. (Withdrawn)
16. (Original) A chaffer having a frame and having a chaffer length and having a chaffer width, for use in an agricultural combine having a fan blowing air through the chaffer for chaffing of a crop, the chaffer comprising:  
at least one screen having a plurality of apertures dimensioned and configured to admit such crop, and  
at least one riser located adjoining the screen and substantially perpendicular

thereto, the riser having positioned thereon at least one air jet dimensioned and configured to provide an air blast parallel to the screen.

17. (Original) The chaffer of claim 16, wherein the air jet is located at a distance from the joint of the screen and the riser, whereby the air blast parallel to the screen is displaced from the screen by the distance.